Advanced Study Guide
Unit 7 Light

To be successful on the unit test, you will need to know how to complete the following tasks:

Define a photon

Know the properties of the **electromagnetic spectrum** which includes being able to:

- Identify its greatest source of energy
- Identify its wave type
- Identify its correct order from shortest to longest wavelength and vice versa
- Be able to identify and give examples of the different types of waves in the electromagnetic spectrum
- Identify uses of the different waves
- Identify the wavelengths of each
- Identify frequencies as compared to wavelength

Know the speed of light

Know the properties of color

- Know the characteristics of a prism in regards to visible light
- Know what cause the color of an object
- Define Absorption vs. reflection and how they relate to color

Identify and recall the properties of transparent, translucent, and opaque objects

Define refraction and reflection and identify rather it is a property of a lens or mirror.

Define the angle of incidence as it relates to reflection

Know the three types of mirrors (plane, concave, and convex)

- Identify the properties of each
- Identify the uses of each
- Recognize and identify a diagram of each

Know the two types of lenses (concave and convex)

- Identify the properties of each
- Identify the uses of each
- Recognize and identify a diagram of each

Good Luck!!!